OFFICERS

PRESIDENT
Steve Martin (303) 469-6855

VICE PRESIDENT
Dave Eisler (303) 694-6217

TREASURER
Fred Yates (303) 988-9053

SECRETARY
Mary Ann Vitry (303) 425-5914

LIBRARIAN
Bob Gaiser (303) 779-4033

SEED EDITORS
Frank Reeves (303) 499-2192
Louis Breyfogle (303) 449-6454
Ron Abbott (303) 772-7198

OFFICERS-AT-LARGE
Al Tara (303) 755-8009
Ron Heath (303) 238-3019

Volume 5 Number 2 February ~~1982~~ 1983 Price $1.50

MEMBERSHIP INFORMATION
$10 APPLICATION FEE AND $18 PER YEAR DUES

Seed Editors
3015A Bluff St.
Boulder, CO 80301

DENVER, CO
FEB 24
-PM
1983

Robert Millikan
37c
USA

CHECK EXPIRATION DATE ON LABEL

This is may be the only notification which you will receive
Please pay your dues of $18 before that date.

FROM OUR PRESIDENT

Well it is finally here! The new Apple //e that is. The major changes:

1) Upper and lower case
2) 64K of RAM built in
3) VLSI chips. Means there are a lot less chips causing easier maintenance and less heat generation.

However, There is no numeric keypad built in as was suspected. By the time this goes to press most of you will probably already have seen the //e.

In our February meeting we will be having the raffle for the Z-80 card with CP/M Software. Unfortunately it looks like we did not sell enough tickets to break even so this may be our last raffle. You can purchase tickets at the meeting before the drawing for $1.00 each. The February meeting will have a demo of computer control of appliances, burglar alarms and other things.

In an effort to clear up the problems we are having with sales during the middle of the meetings we are going to try something different at the March meeting. The Treasurer, Fred Yates, will set up at6:30 P.M. and sell before the meeting. This is an extra burden for Fred but he has agreed in order to help us keep the meetings going smoother. If you want to buy stuff at the March meeting please plan on arriving early.

By the way, while your at the March meeting you may want to stay around to see the new Apple which Scott Knaster will be doing a demo of.

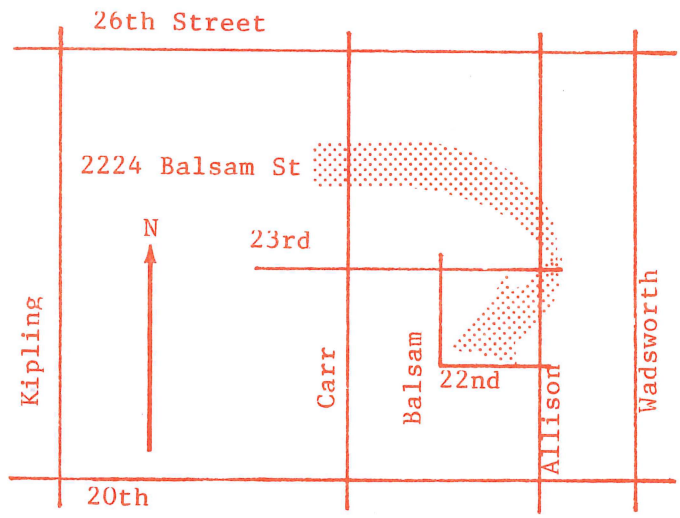
Several people have asked why the SEED is not mailed out before the General meeting. The reason is that there is just too little time too get the SEED out any earlier. The Editors have made sure that all information about meetings are published a month in advance so that there will be no questions about where to go at the last minute.

The February Board meeting will be at the home of Bob and Mary Ann Vitry the week after the General meeting as usual.

Steve Martin

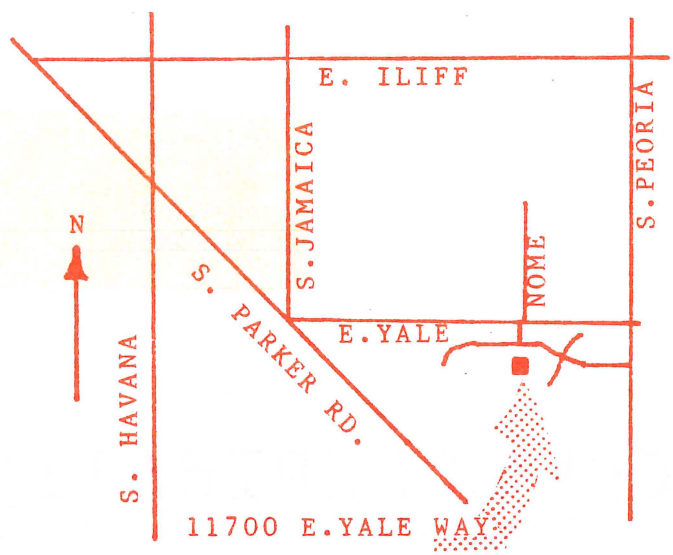
February Swap Meet

This months Swap Meet will be held at the home of Dave and Trudy Nelson, 2224 Balsam Street, Lakewood, Colorado 80215. As usual it will be held on the Sunday following the general meeting, February 6, from 10AM to 3PM. If you get lost call Dave or Trudy at 238-4014 for further instructions.



March Swap Meet

The next swap meet will be held on March 6, 1982 in the Dam West Clubhouse at 11700 East Yale Way. Our host will be Al Tara.



TREASURER'S REPORT

Jan. Treasurer's Report			
Dec. Ending Bal.		4,556.75	
New Membership		784.00	
Renewals		162.00	
D.O.M. Sales		395.00	
Club Library Copying		199.00	
Advertising		.00	
Sales of Supplies		3,186.50	
Interest Received		10.00	
Misc.		119.00	1.
Supplies for:			
President	<	5.00>	2.
Vice President	<	.00>	
Secretary	<	115.92>	3.
Treasurer	<	43.20>	4.
Librarian	<	237.00>	5.
Editor	<	447.50>	6.
Officers at large	<	.00>	
PURCHASE FOR RESALE	<	3,174.40>	
Balance as of 01/10/83		5,389.23	

1. $95.00 income which was not identified as to who bought what from sale of supplies. $24.00 submitted for monthly mailing of DOM diskettes.
2. Balance due on Call A.P.P.L.E. subscription.
3. Purchase of general supplies to support her needs, since she volunteered to fill in for the remainder of the term.
4. Postage supply for future Past due notices, Termination notices, etc.
5. 100 diskettes and 1 ribbon for future DOM's and ongoing conversion of the library.
6. $347.50 for printing of the SEED, $100 advance for postage.

Respectfully submitted
Fred Yates -- Treasurer
January, 1983

Apple Pi Benefits

1. Program library
2. Club buying power on supplies
3. Publication library
4. Monthly meetings
5. Newsletter
6. Member Forum

FDR

UPCOMING MEETING SCHEDULE

(subject to change)

by David Eisler, V.P.

FEB

***** APPLE PI RAFFLE !!! *****

The drawing will be held and winners announced! A Z-80 CPM card wil be given away along with the COMPLETE GRAPHICS SYSTEM by Penguin. Tickets are only $1.00 and are available at the meetings & swap meets. Non-members are welcome. Please support your club by buying a couple tickets. The proceeds will go to paying for our meeting room!

Also in February, we are pleased to have a demonstration of the "TomorrowHouse" computerized home control system. The system combines home security, temperature control, appliance control, and more into one complete package. Compu-Home Systems Inc. of Denver puts out the package and the vice president, Russ Coffman, will demonstrate.

Lastly, Craig Seastrom will demonstrate 2 new programs for speeding up the Apple. His first program is called FAST COPY which, to my relief, will not copy protected programs such as Monster Mash. His second program, called FAST INT.LOAD, is for quickly loading integer basic into language cards. Craig has started a publishing co. called JEWELL SOFTWARE to sell the programs. Good luck!

MAR

MYSTERY MEETING by Scott Knaster. Scott's not talking, but I'll bet he brings in an as yet unannounced computer with some fruit on the label!

APR

Business Applications.

MAY

Elections

* = revised since last month

SECRETARY'S REPORT

APPLE PI USERS GROUP
JANUARY 6, 1983

Apple Pi Users Group was called to order by President Steve Martin in the Green Center at the Colorado School of Mines, Golden, Colorado.

REPORTS FROM BOARD MEMBERS

PRESIDENT: Demo tonignt is from Quantum Technology on hardware applications for the Apple. Our other guest is from ORCA, and he will be showing his new macro assembler. Starting with this month, our meeting room will cost us $110 a night and will in all probability cost more in July. It does includes the use of the screen, projector and table but no Apple computer. There was a good response of volunteers after last month's meeting.

VICE PRESIDENT: Have not collected enough money to cover money spent for raffle prizes. The raffle will be held next month (February). Get involved by buying a ticket. Remember the two packages being offered for prizes are a CPM card - Z80 and the Complete Graphics Package by Penquin. You will be able to buy tickets right up to the drawing next month. Guest speakers next month will be Tommorowhouse - a local company that specializes in security systems that turn on lights plus a whole range of things and Sedstrom Jull. Anybody who is interested in tutoring, please sign up.

TREASURER: Fred Yates read his report.(It is published elsewnere in The Seed.) Two representatives from Binary Data Supply are here tonight and are willing to give a 10% discount to club members. They have donated two boxes of diskettes for door prizes and also have their catalog with them for interested persons. Also there will be five joysticks available for purchase; they are made for the Apple. The Librarian also has a program for a door prize. An updated version of Diversa-Dos (1C) has been received in the mail.(See the Librarian.) This month's Swap Meet will be held at the home of Rich Waite.

OFFICER-AT-LARGE: February's Swap Meet will be at Dave and Trudy Nelson's.

GENERAL: Products that are sold by the Club are available to members only. The reason we are able to offer this service is because of the many members that join.

New number to try: UFONET (278-4242).

DEMONSTRATIONS:

DOM for January - This is mainly a utility diskette. Since there wasn't enough time to view the Christmas diskette that is available at sponsoring computer stores, Bob Gaiser did a quick demo on the Hello program.

DOOR PRIZES:

1) BASF Diskettes - Trudy Nelson
2) BASF Diskettes - Brian Johnson
3) Dos Source 3.3 - Paul Searcy
4) Utility for Apple by Beagle Bros - Neil Young

DEMONSTRATIONS:

1) ORCA By Mike Westerfield. This is an assembler program and includes 3 diskettes plus a 450 page manual for $99.95. Anyone who works with machine language should take a look at what this program has to offer.

2) Quantum Technology by Chester Paine and Larry Norton. Now known as "The Leap Family" they are offering a series of hardware modules and software packages which connect to your microcomputer.

Thank you Binary Data Supply, ORCA and Quantum Technology for making us more knowledgeable about your products.

MAV

* Tutors List *

There is an open listing of "Tutors Wanted" and "Tutors Available" posted at every general meeting and swap meet. There are about 20 names on the list now..

DE

COM-WARE][TERMINAL SOFTWARE REVIEW

In this column I am going to review the COM-WARE][terminal software package that is included with the Apple-Cat][modem. The review will cover the 4.4 version. In later issues of the SEED I will review other terminal software such as Data Capture 4.0, Ascii Express-The Professional and P-term.

COM-WARE][is a professional piece of software that allows an Apple-Cat owner to make full use of his modem for terminal communications. The program is menu driven for ease of use and each of the features is invoked by pressing a single key. This system is used in several terminal software packages and a brief description of each feature follows.

(P)ickup phone...Allows user to make voice calls through the modem when a handset is used.

(H)angup...Does just that.

(A)uto-dial...Allows user to enter a phone number through the keyboard which is dialed automaticaly. The last number dialed can be automatically redialed by typing (A)(R).

(C)hat...Places user into chat mode which allows sending and recieving data from a remote terminal while data is not disturbed in the buffer.

(M)emory...Places user into chat mode but with the memory buffer turned on so that data can be reviewed and placed on disk for later retrieval.

(K)eyboard...Allows user to enter data into the buffer directly from the keyboard to be transmitted. Use of this option automatically erases data currently in the buffer.

(S)ave...Allows buffer memory to be saved to either a binary or text file.

(L)oad...Allows binary or text file to be loaded directly into the memory buffer.

(J) View...Memory buffer is scrolled by to be reviewed. Control-S pauses the listing and Control-Q resumes it.

(V)erify...Does a checksum of the data in the buffer which can be checked against the remote terminal to verify that data was sent/recieved properly

(X)mit...Transmit data from buffer to remote system.

(F)ast transfer...Allows two Apple-Cats with COM-WARE][to transfer a file with 1200 baud without extra 1200 baud modem. This is a very powerful feature if you have another system equipped with a CAT.

(I) Toggle Echo...Toggles between half and full duplex.

(R)econfigure...Allows user to reconfigure software for printer or modem. More on this later.

(D)os...Allows user to enter DOS commands. This can be used to read/write files in another drive.

(&)Toggle printer...Turns printer on and off.

(P)rint buffer...Sends buffer to the printer for hardcopy of files.

(U) Unattended answer...Allows system to answer phone and accept Text into memory for later retrieval. Can be a surprise to anyone who doesn't expect to be calling a computer.

The COM-WARE][system is written in machine language for speed and it will automatically locate itself into a language card in slot 0 to make for a larger memory buffer. The (R)econfigure option allows the user to set up for his own system by specifying such things as slot for the CAT (usually slot #2), Baud of 110 or 300, type of parity if parity

is used and whether or not lower case should be converted to upper case. The printer can also be reconfigured to tell the program what slot the printer is in and whether or not to add or suppress line feeds.

As stated in the (K)eyboard option the memory buffer is erased automatically when direct entry is used. Unfortunately there is no built in text editor with this system and the user will have to use a seperate word processor or text file editor of his own. Standard DOS text files are used or binary data can be saved and loaded which is faster than text files. There are programs included on the COM-WARE]I[disk that translate Applesoft and Integer programs into binary files and back again.

One problem I discovered when using this package was that it would not load a text file. When a load was attempted this system would hang. However, I found that a fix was readily available and I have included the instructions for making this fix elsewhere in this issue of the SEED.

Some of the features that are available on other systems but not in the COM-WARE]I[package include:

Macros--These allow the user to specify certain logon procedures for various systems.

Continuous redial--This allows the user to specify that a number be redialed until it answers or a certain number of attempts have been made. Without this the user must sit by the system manually retrying the number. I wish this feature was in the COM-WARE]I[software more than almost any other.

In summary I found this to be a very easy to use package with several useful features. As it is included with the Apple-Cat]I[modem I cannot give a price to the system but I believe it would easily be worth $75.00 by itself.

(NOTE-- Since I wrote this article I have found out from Novation that the Com-Ware 5.0 package has just been released. The problem with the text file load has been fixed and some enhancements have been added. Owners of the older versions can obtain 5.0 by sending their original disk to Novation with their return address.)

Steve Martin

Com-Ware]I[Fix

If you own the Apple Cat]I[modem with the Com-Ware]I[version 4.4 terminal software then you probably have found that you cannot load a text file. Here is the fix from Novation:

1) "Boot" the Com-Ware]I[disk.
2) Enter <Q> to end the program.
3) Enter the following lines after each prompt:

```
]BLOAD C-W II.RAM,A$900
]CALL -151

*1234:0C FD EA EA
*3D0G

]UNLOCK C-W II.RAM
]BSAVE C-W II.RAM,A$900,L$1F00
]LOCK C-W II.RAM
]BLOAD COM-WARE II,A$900
]CALL -151

*373D:0C FD EA EA
*3D0G

]UNLOCK COM-WARE II
]BSAVE COM-WARE II,A$900,L$3E00
]LOCK COM-WARE II
```

This fix works for both ram and language card versions.

DON'T CHANGE YOUR ORIGINAL DISK!!!

Steven Martin

SEED ADVERTISING RATES
$20 ¼ Page
$35 ½ Page
$60 Full Page

A NEW PRINTER FROM DIABLO

Review by Paul Goble

Some time soon, Diablo should be officially introducing a new daisy wheel printer--the Diablo Model 620. I emphasize the word, "officially"-- the Diablo 620 has been available for many months through various mail order houses. Soon, however, it should appear in stores and appear in advertising.

I have been using a Diablo 620 since August, 1982. My experiences should prove helpful to anyone who is considering buying a letter-quality printer.

Before getting the Diablo 620, I had been using a Centronics 737 dot-matrix printer. As a student, I do lots of writing. I needed an affordable printer with excellent print quality. I chose the Diablo 620 for its price, flexibility, and the reputation of Diablo and its parent company, Xerox.

I ordered the printer from Computer Warehouse in Arizona. Computer Warehouse has been around for a number of years and seems to be quite reputable. I paid a little over $1,100 for the machine. I have seen lots of ads selling the Diablo 620 for about $1,500, but some even advertise it for over $1,900. That price is almost double what I paid. It really is worthwhile to shop around. Mail order houses can be trusted to be as responsive as the local computer store, but I have found most companies which have advertised for at least two years--without a change of address--to be quite trustworthy.

The Diablo 620 prints about 20 characters per second. It can accomodate print lines as long as 13.2 inches and paper as wide as 15.2 inches. It needs an RS-232-C interface, and can operate at 110, 300, or 1200 Baud. It has a 1536 character print buffer which accomodates bidirectional printing. It has many features one would expect to see on an electronic typewriter: friction feed platen, paper bail, absolute tabulation, bidirectional paper feed. and settable margins (sides, top and bottom). It is very flexible and has a large vocabulary of commands. Superscripts, subscripts, underlining, bold face, and proportionally spaced printing are easy to accomplish.

One of the most impressive features of the Diablo 620 is its use of Diablo's new "encoded" plastic print wheels. These new 98-character print wheels are the same ones used by the Xerox Memorywriter. Information about the wheel's characteristics is encoded in a reflective pattern on the wheel. Print wheels are available for several languages in 10, 12, and 15 characters per inch. Some are designed for proportional spacing. The printed characters are crisp, clean, and even.

Numerous fonts are already available. Unfortunately, all of them have the same selection of characters; e.g., all of the business users. Informal, script, and gothic fonts are not yet available.

Both the wheels and ribbons are easily interchangable. Because of the encoding, the print wheels can literally be dropped in place. The wheel can be replaced without moving the ribbon. I frequently change print wheels in under five seconds. This feature is a definite advantage over other daisy wheel printers which require that the ribbon be removed and the print wheel be carefully positioned. The cartridge ribbons are just as easy to install as the print wheels.

The print wheels cost about $15, and the ribbons between $2 and $4. That is, if you can find them. My one major complaint is about the lack of supplies for the Diablo 620. Because it has not yet been "officially released," it is impossible to buy Diablo ribbons or print wheels. It took me several days of research before I discovered that I could use the Memorywriter wheels and ribbons on my Diablo 620. The "Universal" Diablo supplies are not compatible with the Diablo 620.

Several local distributors were able to get information from Diablo about when supplies would become available, but they were given conflicting information. Those

distributors have been sent a list of "Available Printwheels." The manual supplied with the printer is adequate for most purposes, although it does have some gaps. The manual has one error, however, which I found quite frustrating: the toll-free number listed in the manual "for information regarding print wheel and ribbon availability" is not in service. The people at Diablo do seem fairly friendly, in spite of their lack of helpfulness in this matter.

One thing which really surprised me is the Diablo 620's ability to print graphics. The carriage can move in 1/120" increments and the paper can be moved in vertical increments of 1/48". Printout can be achieved which is indistinguishable from that of a high quality plotter. My graphics printouts using Sensible Software's Image Printer are among the best I have seen. Admittedly, the printout is very slow--graphics must be printed one dot at a time using the period. It can take nearly half an hour to print a hi-res page.

On the whole, I have been very satisfied with the Diablo 620. I would recommend that anyone planning to buy a daisy wheel printer seriously consider the Diablo 620. I expect the supply situation to improve once Diablo has officially released the Model 620. Why Diablo let the product be sold before they could support it, however, is an open question.

PG

.....

Recently I ran across the quotation below.

FR (Editor)

It is not the critic who counts, not the man who points out how the strong man stumbled, or where the doer of deeds could have done them better.

The credit belongs to the man who is marred by dust and sweat and blood; who strives valiantly; who errs and comes short again and again; who knows the great enthusiasms, the great devotions, and spends himself in a worthy cause; who, at the best, knows in the end the triumph of high achievement; and who, at the worst, if he fails, at least fails while daring greatly, so that his place shall never be with those cold and timid souls who know neither victory nor defeat.

Theodore Roosevelt

THREE CHEERS FOR TERO SAND

by Fred Yates

Last month I recieved a letter from an Apple Pi member who lives in Helsinki Finland. The letter was short, but had alot to say between the lines. I find it hard to put in words the praise I would like to extend to Tero. I would like the opportunity to meet this exceptional individual. I was so impressed by his initiative, and his ambition - I thought I would share it with the rest of the club membership by copying the letter verbatum for you to read.

Dear Sir,

I am enclosing a check to the amount of $18.00 as per your request in your last letter to maintain our status as participants in your group. I am writing in behalf of my son, Tero Sand, who is now secretary of The Finnish Apple Users Group. He is 18 years old and has been totally paralysed and on a respirator since the age of three. (An article on his special equipment appeared in the May issue of Creative Computing, 1981) The name of the Finnish group's magazine is Omenahyve, which is a kind of apple pie (omena is Finnish for apple).

Be of good cheer, Mr. Yates, we are still with you.

Sincerely,

Jan Sand

Tero's address:

Tero Sand
Auroran Sairaala Osasto 8/2
Nordenskjoldinkatu 20
00250 Helsinki 25, Finland

Auroran Sairaala is the Helsinki municipal hospital. Tero is in ward (osasto) 8/2, and the street is Nordenskjoldinkatu ... one word (literally the gate of Nordenskjold, the Artic explorer).

FY

APPLESEEDS OF WISDOM

by Jack D. Quinn

As most of you know by now, Apple introduced the Apple IIe on the 19th of January. In the 10 days or so since its introduction, I have heard many questions asked about it and I hope that I can answer a few of them in this column. Two of the most asked are: (1) Will Logo-both Apple and Terrapin/Krell Logo work, and (2) will CPM work. The answer is a very definite YES. Almost all of the games will work correctly and I think most of the peeks and pokes are still in the same places.

The one area of question on what will work concerns some of the word processor programs. Apple has a new version of Apple Writer II for use with the IIe that will take advantage of both the 80 column display and the upper/lower case keyboard. Some programs like Format II will now work on the IIe.

When you get a chance to look at the IIe, there are a few things that should catch your attention. Take a good look at the keyboard-it has been changed for the better and you have both upper and lower case letters now. (If you try running a game or doing a catalog of the disk and you get a SYNTAX ERROR, you forgot to type the command in UPPER CASE letters.) The CAPS LOCK key on the lower left side will help here. We can rejoice that Apple has gone back to the old style of keyboard switch that can be replaced one key at a time if you should break off a keytop. This keyboard has the same "feel" as the Apple III and the Apple II of about a year ago. Note there is no longer a Repeat key on the Apple IIe-each key has the auto-repeat feature.

If you can take a look at the back of the Apple IIe, you will see the other big change. Apple has redesigned the back panel so that you do not have to open up the Apple to change cables. It no longer has the cable slots. Each card in the Apple has its own 9 or 25 pin "D" type connector. The game I/O is brought out on a 9 pin "D" conncetor next to the tape in and out jacks. A provision has also been made for locking the top cover to the main case.

You will find the biggest change inside the Apple IIe case. Where did all of the integrated circuits go? The new Mother board has 31 circuits on it and is about the same length as the power supply. Slot 0 is missing since the mother board now has a full 64K of RAM. (You no longer need a 16K Language card.) You can only purchase the Apple IIe with Applesoft in ROM and you get Integer Basic when you boot your DOS 3.3 disk. Apple has an 80 column board that plugs into a 60 pin socket near the power supply (the I/O slots we know in the Apple II are 50 pin sockets.) Apple also has a 80 column card that includes another 64K of memory for a total of 128K in the machine. I have tried the use the Videx 80 column preboot for Apple Writer II in the Apple IIe and it didn't work so it looks like we have another different 80 column format to deal with. I also have another bone to pick-the character set displayed on the monitor doesn't come near looking as nice as the Videx 80 column card. I guess that we can't have everything.

I need to mention one final thing this month. I have been seeing a large number of joysticks coming in for repair. The most common problem is that the 16 pin plug on the end of the cable has some of the pins broken off. This can happen because someone stepped on the plug or was careless in the way they unplugged the cable from the Apple. I hope the new Apple IIe with its 9 pin plug will stop this problem and would suggest that owners of the "old" Apple II consider modifying their Apple to use this type of connector. I am also seeing some problems of broken cables which are a lot more trouble to fix and will cost almost as much as buying a new joystick.

JDQ

TYPESETTING FROM YOUR OWN COMPUTER
Professional photo typesetting from your word processor text files. Can receive ASCII files via MODEM. For further information call Frank 499-2192

BEAUTY IS IN THE EYE OF THE BEHOLDER

ARTICLE FORMAT

For the moment, we would appreciate your submitting your articles in machine readable form. This implies that you give us a disk with one of the following on it:

3.3 DOS TEXT FILE (Apple Writer][)
3.3 DOS BINARY FILE (Apple Writer I)
APPLE PASCAL EDITOR FILE
3.3 DOS MAGIC WINDOW BINARY FILE

Your disk will be returned to you promptly. Be sure that you give us a label telling what you are giving us.

We are printing much of this issue with a Diablo using a Prestige Elite 12 pitch daisywheel, a column width of 3.5 inches (42 characters), and 56 lines per column. It is our intent to print program listings in 80 character widths. Diagrams and sketches will be dealt with on an individual basis - they do not necessarily have to be furnished camera ready, but we do need to be able to understand them!

BDS

BINARY DATA SUPPLY, INC.
1147 S. Huron St.
Denver, Colorado 80223

Large Local Inventory — Prompt Delivery

MAGNETIC MEDIA
COMPUTER TAPE
Data Cartridges
Digital Cassettes
Disk Cartridges
DISK PACKS
DISKETTES
Mag Cards
Storage Modules

COMPUTER FURNITURE
Acoustical Hoods
Archival Storage
Cabinets
CRT WORKSTATIONS
Equipment/Printer Stands
Filing Cabinets
FIREPROOF SAFES
Fireproof Vaults
Partitions
I/O Cabinets
Portable Filing Systems
PRINTOUT STORAGE RACKS
TAPE STORAGE CABINETS
TAPE STORAGE RACKS
Trucks
Word Processing Workstations

Dependable, Professional Service

(303) 698-1800

Compare Our Prices

SUPPLIES
ACCO PRINTOUT BINDERS
Cleaning Kits
CRT Screen Film
CUSTOM FORMS
DISKETTE STORAGE
Filters
Fire Extinguishers
Forms Dollies
LABELS
Manual Racks
Media Mailers
PAPER
PRINTWHEELS
RIBBONS
Reel I.D. Labels
Static Spray
Scheduling Boards
Tape Leaders
Tape Sensing Markers

STATIC CONTROL AND COMPUTER ENVIRONMENT PRODUCTS
Air Conditioning
Cables
Computer Room Flooring
Halon Fire Protection Systems
Power Supplies
Security Systems
STATIC CONTROL MATS

AUXILIARY SUPPORT EQUIPMENT
Computer Tape Cleaners
Degaussers
Disk Cartridge Cleaners
FORMS BURSTERS
FORMS DECOLLATORS
Shredders

Colorado's most complete line of supplies and accessories for all computer and word processing systems.

New Versions of two Programs

by FRED YATES (1/13/83)

As was announced at the last General meeting, there is a corrected version of Diversi-DOS released. The original version I understand loved text files for dinner, after which they were unusable. To correct that problem, Version 2-C is now available. In order to get it, you can do one (or both) of two things: A) Buy the disk it comes on ($2.50), or B) bring us your original disk you purchased from us, and we will swap diskettes with you. The new version has a new label on it, identifying it as Version 2-C, so we don't mix them up.

At the next general meeting, I will have a new version of the Diskette Labeler Program that we were selling with the 1 1/2" x 4" labels. I'm calling this Version 7.0. The disk we've been selling only goes up to Version 4.0, up till now I didn't think my modifications were drastic enough to warrant swapping disks with everyone. With the modifications I plan to make now, I think it is enhanced enough to offer it to others again. How do you get it? The same way you get a new version of Diversi-DOS. Either buy the disk from the club ($5.00) or bring in your original disk which you purchased, and swap with us.

Note that this program is written for the MX-80 or MX-100, with the Graftrax feature that allows printing of subscripts and italics. If your MX printer does not have Graftrax, call me, and I will talk you through the very simple modifications to eliminate the need for Graftrax.

Also, I handed out 2 free copies of the program last month to 2 individuals who said they would modify the program to use their printers, and give the club a copy of the modified code to pass on to club members. One will be for a Diablo and the other will be for a Pro Writter. When these become available, I will notify you in the SEED.

For those who are wondering what the enhancements are, read on. If your not wondering, your free to skip on to the next article, or re-read the first of this article.

A) If you need 4 position disk numbers, the # sign is replaced with the left most character of the disk number. If the disk number is < 4 characters, the # sign is printed.

B) Some people have been known to skip the line up routine and wonder why their printers skip 66 lines between labels. The program will force you to line up the labels on the first execution of the program. If you kill the program and rerun it, it will NOT force the line up, because it should be okay, unless you power-down the printer. If you power-down the printer, re-execute the line-up routine, because that is where the form size is set, for skipping to top of next form.

C) Also, people have been known to try a longer title on the label then there is room for, this would hang the program (serves them right). The new version will catch it before it hangs, and gives you a chance to copy and modify what you previously keyed in.

D) Something else the program would choke on is copy-protected disks. The program would not be nice to you if it couldn't read the catalog. The program is now user friendly, and forgiving.

E) I have found that my friends really enjoy getting disks I have labeled for them with this program, but they don't like my name on their label (have you ever met anyone like that?). I now have a routine in the program where you can change the name that is printed on the label without having to change the hardcoded variable in the program itself.

For those who have not yet bought the disk, and wonder what I'm talking about, I'm refering to the program we use to print the labels for the DOM's. That program is available from the club for the asking (accompanied by U.S. dollars).

FY

DISK HANDLING TIPS

by FRED YATES

At our last meeting, Binary Data Supply was present and offered club members a 10% discount on products in their catalog. While visiting with them I noticed a very informative flier which they said I could put in our publication.

The value of a diskette isn't much untill you have spent time and money to put a lot of information on it. Then it becomes VERY valuable, especially at retrieval time.

A diskette with valuable data recorded on it deserves the best care. Here are some tips that will help you provide that care for your diskettes.

STORAGE

Do not expose disks to sunlight or heat. Extremes of heat and cold can affect disks. The safe temperature range is 50 - 125 degree F.. Problems can occur if disks are left on a window sill or transported in the trunk of a car.

Disks should be at the same temperature and humidity as the machine for which they are intended. If they have been exposed to temperatures outside of the computer's range, allow them to acclimate outside of the carrying case or shipping container for about five minutes before use.

Improper storage can cause permanent damage. Diskettes can be stored flat - not more than ten to a pile - or stored vertically. If stored vertically, the disks must be supported so that they will not slump, bend, or develop a permanent disfiguration that would cause problems with the computer or machine.

Store diskettes in their disk jackets or envelopes. When removing a disk from a jacket, lift it by the top edge and carefully insert it into the computer or machine. Return the disk to its envelope directly after each use, and then place the disk and envelope in the proper storage facility.

Diskettes should not be tossed in a desk drawer or left lying around a desk. Dirt, dust and environmental contamination are likely to create problems for both the disk and the computer or machine that may result in errors, whether machine or computer errors, operator errors, or contamination of the reading head.

HANDLING

A stack of diskettes is not like a stack of paper. Never place a paperweight, telephone, or other heavy object on a disk.

Paper clips are for paper. Never clip hard copy or anything else to a disk.

Sharp pencils are also for paper; dull ones too. The computer or machine can be contaminated by the introduction of graphite from the pencil lead or the residue from an eraser.

Use only a felt-tipped pen when writing on a disk label.

Don't touch the exposed areas on the disk. The natural oils on hands or added ones (hand lotions, etc) are contaminants and cause problems for disks.

Disks are delicate magnetic media and are affected adversely by magnetic materials that can scramble or erase the data recorded on them. One source most people do not readily recognise is the telephone. When it rings, a strong magnet is energised that politely and rapidly rearranges the bits on your disk. Also, you might have a file case or cabinet that uses a magnetic lock, a paper clip holder that is magnetized with clips around the top, or a magnetic clipboard for typing. These are all commonly found in an office environment and create drop-out and erasure problems for disks.

Magnetic fields are found in power-generating equipment, motors, alernators, transformers, and power lines. They are also commonplace at airports

in security detection systems, conveyor motors, electric luggage carts, and aircraft power systems.

Most metals are ferromagnetic and can set-up magnetic force fields that will cause erasure or drop-out on disks. When selecting a disk storage container, choose one that is not made of metal.

CARE SUMMARY:

Damaged disks should not be inserted into a drive.

Disks which are physically damaged (torn, creased, warped) or contaminated may cause the machine's read/write head to lift from the disk, resulting in operation errors, equipment errors, or head contamination.

Placing heavy objects on disks can damage them.

Rolling chairs over them have a tendency to crease them, as Bill Gunderson has discovered (twice).

To remove a disk from its envelope, grasp the jacket by its upper edge and pull.

Return the disk to its protective envelope whenever it is removed from the disk drive.

Never write on a disk or an identification label affixed to it with an erasable pencil. Write on ID labels with a soft-tipped or fiber pen. Better yet, select an identification system that eliminates the need to write on disks at all.

Do not touch or clean the disk surface. (Anyone try cleaning their disks with Windex lately).

Keep the disk away from magnetic fields and from ferromagnetic materials which might be magnetized. Any disk exposed to a magnetic field may lose information (most likely when it is importent).

FY

APPLE PI USER'S GROUP LIBRARY INFORMATION

The APPLE PI LIBRARY contains over 5.000 programs and files on over 250 diskettes in over 30 catagories. All of these programs are Public Domain programs which are either original efforts by members, modifications of programs listed in magazines or Newsletters for the APPLE II Computer, or programs obtained through trades with other clubs. Some of the programs that we have were copyrighted after they were given to us and so we are free to trade them with APPLE PI members only (and not even with other APPLE Computers Clubs). Please honor these commitments. Therefore the APPLE PI LIBRARY is not supposed to contain copyrighted programs; if you spot a copytrighted version of a program, please let us know so that we can remove it. This is one reason you must be careful in giving us programs in exchange.

The APPLE PI LIBRARY is open to all members of APPLE PI. There are several ways you can contribute to or obtain copies from the Library:

1). By coming to the Monthly SWAP MEET (usually on the First Sunday after the General Meeting).

2). By Written Request to the Librarian at the monthly General Meeting.

3). By Written Request to the Librarian by Mail.

4). By Appointment with Dr. Brown at the School of Mines (279-0300, Ext. 2434).

The Library is available at the SWAP MEETS. Every Member should have a listing of most of the programs in the yellow book "THE APPLE PI LIBRARY LISTING" (New Members receive them free when they join). Additional or Replacement Listings are no longer available. New LIBRARY LISTINGS will appear sometime next year. An Almost Up-to-Date Listing is available at the Swap Meets.

The cost to you for the copy of a side of programs is $1.00 and a blank disk. Almost all programs in our Library are in the process of being converted from DOS 3.2 to DOS 3.3. Disks no longer need to be initialized for our copy program. We will no longer grant access to anyone to remove Diskettes from our Library to test them out to see if the programs on the Disk are wanted. The $1.00 fee was made low enough for anyone to get these programs to try them out. We will also avoid people destroying Disks. Since we have been copying over 150 Diskettes during an average SWAP MEET we ask that you:

1). LABEL EACH SIDE WITH THE CATAGORY AND DISKETTE NUMBER (i.e. BU 001 Business). All good Diskettes come with Labels!

2). Copy Fee of $1.00 per Disk side.

3). Punched Diskettes if you wish to copy both sides of Diskette.

4). BY MAIL we need: Your Name, Address, and phone number.

5). Instructions on how the Disk is to be returned. If by mail, be sure to include a self-addressed stamped envelope and Floppy Armor or $2.00 to cover shipping costs.

The APPLE PI LIBRARY is only open to members of APPLE PI. These are programs that are obtained by your expense and effort. Please urge your friends to join also to add to this support. At the low cost of $1.00 per Disk side, none of these programs are beyond the reach of people. Besides the low $1.00 cost of a Disk full of Programs is one of the lowest of Apple Clubs in the Nation. We would not like to raise this fee. Many clubs do not even allow access of their programs to Members of their clubs except in the form of Disks of the Month. And most Clubs charge $7.00 for them!

If you have found a)) BUG ((in one of our Programs please note the circumstances, Line Number and Type of Error. If you fix a)) BUG ((in a program we will give you another Disk Side FREE when you give us a "FIXED" copy of the program.

Hope to see you at the next Swap Meet.

Robert C. Gaiser, Librarian

Reprinted from the Miniapples, Minn. Apple Users group

VIDEX ENHANCER II

A review

by Chase Allen

I recently acquired the VIDEX Keyboard Enhancer II, and would like to recommend it to anyone who does a lot of Word Processing. It also has several features which make program entry chores easier, and finally it has some real-time considerations which are an asset when it is important that you account for all keys pressed, regardless of what other functions are taking place concurrently.

In order, lets look at these features. But first here's a comment about the hardware compatibility. The Enhancer II is not compatible directly with pre-REV 7 Apples. By that I mean, if you have the original keyboard you are probably not compatible. However, by this time many of the older style keyboards have been replaced by the one that has the encoder on a small board which fits on the back of the keyboard. In such cases for this discussion the upgraded system will be considered to be in the REV 7 or later category. Since the Enhancer replaces this encoder circuit board, you can see the concern in this area.

Now to the features. For a word Processor, most users would like to see a more normal typewriter-like keyboard. With the Enhancer you have about as close to a typewriter keyboard as you can get and still use the Apple hardware. The Enhancer turns the Apple Keyboard into a two mode device. The first mode, directly on cold boot, is unchanged from the familiar upper case only, standard Apple board (VIDEX has played games with the RESET key - you almost certainly want to go to the CTRL-RESET configuration to effect a re-boot) and RTN-RESET initiates the Typewriter keyboard mode. A lower-case chip is supplied, which gives you lower case letters on your display. These lower case letters can come from the Enhancer.

So, you might ask, HOW do I select between upper and lower case? Well, simple! The RTN-RESET actually puts you in the Typewriter mode, exactly as if you were on a typewriter. Type a key and it is lower case. Hit a SHIFT key simultaneously with another key, and presto... UPPER CASE! Now comes the neatest trick of all.... Hit CTRL alone, and you are in SHIFT-LOCK! Depress the SHIFT key and you return to lower case.

In addition to these goodies, hold a key down and it repeats automatically (after a 3/4 second delay) at a 15 character per second rate. So what is the REPT key good for now? Nothing, if your hands are as slow as mine. You speedies can use it as before, but be ready to hop off it quick! It repeats immediately at 50 characters per second! So now if you want to return to the old familiar Apple, simply hit the RESET key, alone. (Don't worry you won't lose all that text - remember the CTRL-RESET Configuration?) All it does is return to the upper case only mode.

So... What else did I promise? Ah yes, the Program Entry enhancements. Well, the keyboard can hold 'Macros'. That means that you can press a key which can stand for a word, or words of your own choosing. As you are entering text, you shift to the original keyboard, press a key and lo and behold the entire word 'program' (or whatever else you loaded) is entered. This is most useful for those Pascal users in the crowd, because Pascal uses numerous 'Key' words like WRITELN, READLN, BEGIN, END, IF..THEN..ELSE, etc., etc. If you use the convention as I do that all key words are full caps, and the rest of your local variables are capitalized lower-case, this feature cuts down considerably on the keystrokes required. These macros can be entered as you need them, or can be 'downloaded' at boot time from a specially prepared 'HELLO' type program.

Finally, we get to the 'type-ahead' buffer. The Enhancer has a 128 character hardware buffer that holds characters typed until requested (and acknowledged) from the operating system. This means that the characters are not lost during disk or other peripheral equipment operation as is the case in the standard Apple environment. This has important implications if you have real-time processing with interrupts, or other conflicting activity.

In all I am very happy with the Enhancer, and recommend it highly, but with a couple of reservations. Namely, the documentation leaves a lot to be desired. I think it is all there, but not very well organized. Also, I have an early version which does have some conflicts with the game paddles, and games in general. As the Enhancer is an installation which is not easily removed, you have to be sure you know what the trade-offs are. (In fairness, I have been told that there is a new ROM which takes care of the conflicts, and I think it is possible to program around the problems.) If anyone has any questions, or wants to see a demonstration of the installation, as I have implemented it, feel free to contact me and we will get together.

Hardware Review

REPRINTED FROM THE APPLE*DAYTON NEWSLETTER

by Norm Pennington

THE ENHANCER][- Videx, Inc.

Every once in a while a new product comes out that is so well executed and helpful that is becomes difficult to restrain one's enthusiasm when describing it. Such is the ENHANCER][from Videx. You may already be familiar with the KEYBOARD ENHANCER (for Apples of Rev. 6 or less). It is a product designed to overcome some of the original limitations of the Apple, most notably being the lack of lower case characters. The ENHANCER][is an improvement of the earlier version for Apples of Rev. 7 or greater. It provides direct lower case entry - and much more.

The ENHANCER][also provides a solution to some of the things you always suspected your Apple could do, but didn't have the means for. For example, how many times have you started typing commands on the keyboard while the computer was busy doing something else, like reading disk files, only to find just the last letter of your command appear on the screen? This can be overcome with what's called a "type ahead buffer". Such a buffer allows you to type in advance what you're going to do next. While your Disk II is loading a file or program, you can immediately start telling the Apple what to do after it's finished with your last command. The ENHANCER][has a 512 byte buffer with which to operate, far more than you will need for just about any job.

How about an auto-repeat key function? With THE ENHANCER][installed, just hold the same key down, and after about 3/4 seconds it starts repeating the key at 15 characters/ second. If that's too slow for you, just depress the <REPT> key at the same time and watch the cursor zoom at 50 characters/ second.

Additionally, there is a 512 byte buffer (the same buffer) for "macro" definitions. A "macro" may be loosely defined as a standard command or commonly used phrase which may be coded as a couple of simple keystrokes. For example, "DELETE" may be defined as <shift> D. "CATALOG" can be <shift> C.

A single keyboard macro can be up to 510 bytes long. If each macro is only a single character (as in a DVORAK keyboard) there is enough on board RAM for about 170 macros. These macros can be loaded from a disk, so if you want to use different macro sets for different uses, you need only load the desired macro file.

Included in the package is a utilities disk which enables the user to configure THE ENHANCER][to even further meet his needs. For example, perhaps in certain cases you don't want the type ahead buffer, or to completely disable the special functions so that the keyboard acts just like an unmodified Apple. One case in which you may want to do this is to be able to run some games which depend on keyboard input, such as "APPLE PANIC". All you have to do is run a menu-driven program and answer what you want.

Included on the disk are several macro files that you may wish to use right away. For example, you can simply BRUN the "APPLESOFT" file and <ctrl C> becomes CATALOG, <ctrl L> becomes LIST, and <ctrl H> becomes HTAB. There is even a macro file which converts the keyboard to the DVORAK version. It even puts a numeric keypad right onto the keyboard! Finally there is a "BLEN" file which prints to the screen the length and address of all binary files when loaded. The INIT command is disabled, but can be reenabled by running the UNBLEN file.

The ENHANCER][function can be "down loaded" immediately, and even save a machine code file for use when you want to do it again. Thus, the file may be run from a "HELLO" program if you want to go right to the games. Unfortunately, you have to run the file first, as some games will not run correctly if booted directly. There is also a "macro editor" program which makes it easy to define and save your macro tables.

Installation took me about 45 minutes, and the accompanying manual was well supplied with pictures, diagrams, and clear instructions which made the job easy. (If I had no trouble with it, it's got to be simple!) All one needs to do is replace the old ASCII encoder board (the one that hangs under the right side of the keyboard) and install two jumper wires. The only other thing that needs to be done is to replace one motherboard chip with a Videx chip, and you're in business. Just run the "CHECKOUT" file and you can rest secure that the ENHANCER][is working.

In six months of use, I have only encountered a few problems with the ENHANCER][. Occasionally keys are duplicated or misread from the keyboard after booting up, a problem resolved by simply rebooting. The KEYFILTER program, which makes the shift key function like a true shift key utilizes buffer spaces utilized by other programs, such as the MEMORY MANAGEMENT SYSTEM II.

Overall the ENHANCER][is a very useful addition to the Apple computer. It is made by Videx, a company who in my experience provide customer support that is second to none. The ENHANCER][retails for $149.95.

****

[Ed. note: In spite of Mr. Pennington's fine review, I can't resist putting my five cents worth in for this product. The most useful feature of the ENHANCER][is the ability to define keyboard macros both in advance and at the keyboard. Yes, you can define "Catalog" and "Delete" as macros, but that's just the beginning.

The ENHANCER][actually gives you two full keyboards for the price of one, an "upper case only" keyboard and an "upper/lower case" keyboard. One can toggle between these two using <reset> and <shift-reset>. Of course there is still only one physical keyboard, but in the memory of the ENHANCER][they are completely independent. Of the keys on the Apple's physical keyboard, all except the <ctrl>, <rept>, <reset> and two <shift> keys can be used for character input (that leaves 47). Each of these can be used with the <ctrl> or <shift> keys or both, making a total of 188 (4*47) separate inputs at your disposal. Pretty good, huh? But wait, you have TWO keyboards like this, for a grand total of 376 different keyboard inputs, any of which (up to a total of 170) may be redefined to suit your desires.

Here are just a few possiblilities, some of which I have implemented. You could have a full ASCII keyboard AND a Dvorak keyboard available simultaneously. You could have a file of macros containing common adventure game commands, each of which could then be entered with a single keystroke. If you ran across a "burned-out lantern" in your adventure which insisted on being called by its full name, you could define this macro at the keyboard, thereby having to type it out only once.

You could design macro files containing common DOS, BASIC, and PASCAL keywords. If you were working with a file named "MYPROGRAM.BASIC.TEST1" you could define this as a macro (say <shift-F>), and thereby save yourself the trouble of having to retype it every time you wanted to SAVE, LOAD, or RUN it. When playing arcade games, you could redefine the movement keys to your tastes, whether or not the game provided this feature. If you have the LOGO language, you could provide single-key turtle graphics for young children whether or not your version had this feature. The possibilities are endless. I hope that Apple has made this product a standard feature on their rumored "Apple][E". It's that good!!
Richard E. Mercer]

Need a
New Year's
Resolution?

: Are you an active member, the kind that would be missed,
or are you just contented that you name is on the list?
: Do you attend the meeting and mingle with the flock,
or do you stay at home and criticize and knock?
: Do you take an active part to help the work along,
or are you satisfied to be the guy who just belongs?
: Do you work on committees? To do this is no trick.
Or leave the work to just a few and talk about the "clique?"
: So come to meetings often and help with hand and heart.
Don't be just a member, but take an active part.
: Think it over, member, you know right from wrong.
Are you an active member, or do you just belong?

By Paul Olsen, E.A.A. Ch. 474
Published in October issue of
Sport aviation

Read, reviewed and reprinted
by Bob & Mary Ann Vitry

********** RAFFLE TICKETS! **********

GET YOUR APPLE PI RAFFLE TICKETS!
ON SALE NOW
AT THE GENERAL MEETINGS & SWAP MEETS
NON-MEMBERS WELCOME

ONLY $1 (helps pay for our meeting room)

PRIZES:

Z-80 CPM card for your Apple II
COMPLETE GRAPHICS SYSTEM by Penguin

you needn't be present
at the Feb drawing to win

JOIN THE FUN! SUPPORT APPLE PI!
BUY A TICKET!

****

SEED UNCLASSIFIED ADS

Editor: Frank Reeves

APPLES NEEDED

Need Apple II plus and Apple III systems on short term rental basis. We rent systems and software to others and sometimes need more systems than we can supply. If you would like to rent your system out through PCSI and earn some extra cash, give us a call at 433-6433.

FOR SALE: Texas Instruments Silent 700

Printer with paper.(RS-232).....$550

MACHINE LANGUAGE PROGRAMMER WANTED.....

Call Frank 499-2192

FOR SALE OR TRADE

I have a LOBO Disk II Interface Card, with both DOS 3.2 and 3.3 on the board. Will sell for $75.00 or accept a DOS 3.2 APPLE Disk II Interface Card in partial trade.

Call Frank at 499-2192

ARTICLE FORMAT

For the moment, we would appreciate your submitting your articles in machine readable form. This implies that you give us a disk with one of the following on it:

3.3 DOS TEXT FILE (Apple Writer][)
3.3 DOS BINARY FILE (Apple Writer I)
APPLE PASCAL EDITOR FILE
3.3 DOS MAGIC WINDOW BINARY FILE

Your disk will be returned to you promptly. Be sure that you give us a label telling what you are giving us.

We are printing much of this issue with a Diablo using a Prestige Elite 12 pitch daisywheel, a column width of 3.5 inches (42 characters), and 56 lines per column. It is our intent to print program listings in 80 character widths. Diagrams and sketches will be dealt with on an individual basis - they do not necessarily have to be furnished camera ready, but we do need to be able to understand them!

ADVANCED BASIC GROUP: JANUARY SIG REPORT
by David Eisler

At the last swap meet we reviewed hi res shapes. We looked at how to make shape tables and how to use them with the DRAW, XDRAW, ROT, & SIZE commands. Most onlookers quickly decided that manually generating shape tables wasn't for them and soon walked away.

Next month we'll go back to the Applesoft Tutorial and discuss the final chapter, "STRINGS & ARRAYS". I am planning one final meeting after that for anyone interested in using small MACHINE LANGUAGE subroutines from basic.

Anyone with questions or problems with basic programming, please bring them to the next SIG meeting. I look forward to seeing you there!

DE

SEED UNCLASSIFIED AD

FOR SALE - Apple Joystick
Almost New Condition, in original box.
Asking $35.00 or best offer.
Call Bob at 394-4665

If you've seen an ad for a disk-lending program called "Compufun" and were tempted but wondered if they could really deliver all they promised, read on. Briefly, for an initial membership fee (which varies from $39-$59 depending on the plan you select) you can rent disks for a charge for $4-6 each, keep them for as long as you interest lasts and then return them for more. Having owned an Apple for less than 6 months and already having nightmares that my husband might add up what all those disks have cost us, and having two children with a never-ending thirst for the latest game, the plan sounded promising. I joined. Within a week, my first 2 disks (Threshol and Cranston Manor) arrived along with a free gift disk. We enjoyed them and upon leaving for a week vacation dropped thm in the mail. When we returned a week later there were two new ones waiting for us. (Apple Panic and an educational spelling aid).

I wrote them that I'd like to rent "Step-by-Step", a $80 how-to-program program. They wrote a few days later and said they would add it to their library and I am now renting it for $8.

The service, quality program and personal attention have far exceeded my best expectations and have prompted me to let you know that "Compufun" seems to be a very reputable small but growing company.

For details on their rental plans, you'd need to write them directly: "Compufun" 5753G E. Santa Ana Canyon Rd., Anaheim Hills, CA 92807. They also send out a Newsletter.

Lynne DeNio

NOTICE ABOUT SOFTALK
by FRED YATES

I finally have some feed back for those individuals who sent in their serial numbers. After not hearing from SOFTALK for two months, I gave the individual who made the offer to me a call. Low and behold, there was more information he needed from me, but never got around to sending me a letter about.

All the requirements have been fulfilled now. Apple Pi is now a designated sponsor so we can sponsor our members, thereby qualifying them for the $18.00 subscription fee, rather than the $24.00 fee. Just being a member does not satisfy all the requirements, you must also register your serial number with SOFTALK thru the Apple Pi club. Because of this requirement, I asked all of you for your serial numbers in the past. SOFTALK just made my job easier by sending several registration cards for new applicants to fill out, that have our sponsor number stamped on it for Apple Pi identification.

Those who have already sent in their serial number, should start getting their magazines in about 2 months. Those who have NOT yet sent in their serial numbers, to me, DON'T. Hit me up at a meeting and I will give you one of these cards to fill out and mail in (no postage needed). If you live outside the Denver area, or cannot make it to a meeting, send me your serial number, and I will fill out the card for you (this eliminates postage to send it to you).

FY

EDITORIAL COMMENT

It seems a few members of the club may have a misunderstanding about the distribution of the SEED. For example, this FEBRUARY'S Issue will be distributed on or about the Feb. meeting. All timely information regarding MARCH events (Swap Meets, March Mtg.,etc.) should be in your hands before March 6, if the information is provided to us in time. If the Feb. Issue is not in your hands by March 6,1983, it is late. Please return the form below:

F.R.(Editor)

COMPLAINTS

[Although the seed requires many hours to prepare each month, the high salarys received by the Editors make it all worthwhile....In all seriousness, the considerable positive feedback we have received helps a lot]

MBI™ APPLETIME™ CARD

The Appletime™ Card* may be placed in any slot except Ø.
The card supports the popular "Mountain Hardware™" time format as accessed from BASIC. In addition, the card has a variety of output formats:

Mountain Hardware Format: MM/DD hh;mm;ss.ØØ	EG: 12/14 14;26;33.00
Normal Time Format: HH:MM:SS	EG: 12:14:33
Unformatted Date: YYMMDD	EG: 821230
Date, Format 1: DD-MMM-YY	EG: 26 JAN 82
Date, Format 2: MM/DD/YY	EG: 12/14/51
Day, Unformatted: D	EG: 1 [Ø = Sunday – 6 = Saturday]
Day, Formatted: DDD	EG: MON, TUE, etc.

The card is accessed using standard PR#N, IN#N (N = Slot number of card) commands. The information is then accessed using an "input" command: Input "x"; A$ where x is a single character that specifies the required information and format desired.

The accompanying diskette contains:*

Setter: This program allows you to set the clock easily for any local time zone.

Diagnose: This program is a diagnostic for the card.

Demo: An interesting demonstration of the capabilities of a card.

Date Book: This is a comprehensive desk calendar program that allows you to schedule an event in the future and recall it at any time. A daily report may also be printed. There is also a 24 hour "tickler" file that will interrupt and remind you of an event, and of course file maintenance routines.

All programs are copyable. DOS 3.3 source listings are included.

The MBI Appletime Clock Card comes from our factory—with a charged battery, fully tested and with local time pre-set. The card carries a 90 day limited warranty.

MBI™ - VIP - INTERFACE CARD

This card contains a parallel printer interface with full graphics capabilities built in, and a Serial RS-232 Bi-directional port, all in one package.

Parallel Port Graphics:* Fully compatible with other popular graphics cards, using Control-I to signal a card command. (See other side for options).
Interface is compatible with EPSON, NEC, C-ITOH, IDS PRISM, OKIDATA and other dot matrix graphics printers. (Specify printer when ordering).
Includes printer cable.

Serial Port:* Fully RS-232C compatible. 3 modes of operation; Serial Graphics printer output, bi-directional communications and terminal emulator; gives maximum flexibility. Uses hardware and software handshaking. Includes one-foot cable with female DB-25 connector.

Standard RS-232 Signals Supported

PIN	SIGNAL
2	Transmit data
3	Receive data
4	Request to send
5	Clear to send
6	Data set ready
7	Ground
8	Data carrier detect
20	Data terminal ready

Selection of Serial or Parallel output with a simple keyboard command.

The card carries a 90 day limited warranty.

*Specifications subject to change without notice.

MICROCOMPUTER
BUSINESS
INDUSTRIES
CORPORATION

1019 8TH STREET
GOLDEN, COLORADO 80401
(303) 279-8438 • TWX 910-934-0191

Two of mankind's greatest treasures

TIME & ART

Reflected in two outstanding peripherals for your APPLE II

The MBI™ APPLETIME™ Card

$99.00*

- Fully Mountain Software compatible
- Disk included with all software
- Includes Datebook™ - a complete desk calendar
- Time of day
- Calendar date
- Day of week
- Program timer
- International time-keeping ability
- Recharging battery backup
- Complete software formatting
- Offset time/date/day readout

The MBI™ VIP Card

VIP™ Card - "Versatile Interface Peripheral"

(Available for EPSON, NEC, C-ITOH, IDS PRISM, OKIDATA and other graphic printers soon)

VIP™ Card - The Ultimate Graphics Card **$149.00***

A Centronics Parallel Interface with a Serial Port and Cables featuring:

- Text and graphics screen dump routine
- Graphics with inverse & emphasized modes
- Enlarged picture mode
- Variable line length with left & right margins
- Block graphics
- 90° picture rotation
- Chart Recorder Mode
- A serial port with full RS232 capability
- Software baud rate control from 110 to 9600 baud

*Suggested List Price

MICROCOMPUTER BUSINESS INDUSTRIES CORPORATION

MBI

ADMINISTRATIVE OFFICES: 1019 8TH STREET, GOLDEN, COLORADO 80401 (U.S.A.)
TELEPHONE: (303) 279-8438

TWX: 910-934-0191

Apple is a trademark of Apple Computer, Inc. MBI, Appletime, VIP, and Datebook are trademarks of Microcomputer Business Industries Corporation.